



Australian Government

Assessment Requirements for ICTCBL330 Splice and terminate optical fibre cable for telecommunications projects

Release: 1

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Modification History

Release	Comments
Release 1	This version released with ICT Information and Communications Technology Training Package Version 5.0.

Performance Evidence

The candidate must demonstrate the ability to perform the tasks outlined in the elements, performance criteria, and foundation skills, and to:

- splice, terminate and test optical fibre cable, applying safety precautions when working with laser-based systems and ensuring that required enterprise certification is first obtained if working with live fibre
- splice at least 12 fibres and house in industry recognised enclosures and underground closures according to manufacturer instructions
- install a pigtail that is fusion spliced to cable fibre
- inspect and clean optical connectors
- complete relevant documentation according to manufacturer and design requirements
- provide customer report documenting installation and test results, according to industry standards
- comply with all related work health and safety (WHS) requirements and work practices.

Note: Evidence must be provided at least once when a specific volume or frequency is not stated.

Knowledge Evidence

The candidate must demonstrate the knowledge required to perform the tasks outlined in the elements, performance criteria, and foundation skills, which includes knowledge about:

- specific WHS and environmental requirements relating to the activity and site conditions, including hazardous gases
- relevant safety standards applicable to the operation of laser products
- safety precautions when working with laser-based systems
- industry and enterprise policies and procedures when splicing optical fibre cable
- causes of signal strength loss in optical fibre
- colour coding of fibres

- features and operating requirements of test equipment for optical fibre cable
- information required to operate equipment according to a test specification
- optical fibre equipment and manufacturer requirement for safe operation
- techniques for types of termination, including:
 - direct termination
 - fusion splicing
 - mechanical splicing
- test methods and performance requirements
- types of optical cable
- relevant authorities that may be involved in optical fibre installations.
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Assessment Conditions

Skills must be assessed in a workplace or simulated environment where conditions are typical of those in a telecommunications work environment or workplace.

Access is required to:

- site/s where splicing and termination of optical fibre cable can be conducted
- special purpose tools, equipment and materials currently used in industry such as optical fibre testing equipment
- relevant regulatory and equipment documentation that impacts on optical fibre cable installation activities.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

Companion Volume Implementation Guides are available from VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2>